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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,612	07/26/2001	Aedan Diarmuid Cailean Coffey	ERLG.P-024 6798	
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OPPEDAHL & OLSON LLP			CHANG, RICHARD	
P.O. BOX 5388			ART UNIT	PAPER NUMBER
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			2663	

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	09/915,612	COFFEY, AEDAN DIARMUID CAILEAN			
omoorion canmary	Examiner	Art Unit			
	Richard Chang	2663			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on <u>05 November 2005</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
 4) Claim(s) 14-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 15,20 and 21 is/are allowed. 6) Claim(s) 14 and 16-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 26 July 2001 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Response to Amendment

1. Applicant's arguments and amendments, filed on 11/5/2005, with respect to claims 14-21 have been fully considered but they are not persuasive.

Examiner does not withdraw the 35 U.S.C. obviousness type 103rejection to Black et al. in view of Palmer et al.

In response to applicant's argument that the prior art references dates are questionable based on the reference patent issue dates. This is irrelevant since 35 U.S.C. 103(a) rejections are based on the effective filing date of the reference patent of 35 U.S.C. 102(e) prior arts.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the references cannot be combined based on distinction between circuit-switched systems and collision-based packet systems) are not recited in the rejected claims 14 and 16-19. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Claims 1-13 had been canceled.

Claim Rejections - 35 USC § 103

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 14 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent No. 6,614,796 ("Black et al.") in view of US patent No. 6,141,355 ("Palmer et al.").

Regarding Claims 14 and 19, Black et al. teach a fibre channel arbitrated loop (FCAL) switch (see Fig. 4) with multi-mode configuration including a hub mode (See Fig. 8, Col. 36, lines 3-7), said switch comprising a switching device as a crossbar switch (100 as matrix of switches, see Fig. 4) connected by a plurality of input signal lines (104-108 NL) and connected by a plurality of output signal lines (106-NL), wherein the numbers of the input lines and the output lines are to be assigned, and the individual switching per input lines and output lines are configurable by control processor ad routing table (See Fig. 4, Col 14, lines 9-22).

Black et al. teaches substantially all the claimed invention but did not disclose expressly the particular application involving limitations of

"for at least one of the N fibre channel inputs, the closing at the same time of at least two switches associated therewith, whereby at least two of the M fibre channel outputs are both connected with the at least one of the N fibre channel inputs.".

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Palmer et al. teaches that the crossbar switch supports multicast which means that different output ports may be configured to follow a signal that appears on the same input port at the same time (See Fig. 4A, Col. 10, lines 47-55).

A person of ordinary skill in the art would have been motivated to employ Palmer et al. in Black et al. in order to obtain a FCAL switch connection and to take advantage of multicast capability wherein different output ports may be configured to follow a signal that appears on the same input port at the same time in claims 14 and 19.

The suggestion/motivation to do so would have been to configure different output ports to follow a signal that appears on the same input port at the same time, as suggested by Palmer et al. in Col. 10, lines 47-55. At the time the invention was made, therefore, it would have been obvious to one of ordinary skill in the art to which the invention pertains to combine Palmer et al. with the Black et al. to obtain the inventions specified in claims 14 and 19.

Regarding claim 16, this claim has limitation that is similar to those of claims 14 wherein N and M can be equal or unequal, thus it is rejected with the same rationale applied against claim 14 above.

Regarding claim 17, this claim has limitation that is similar to those of claims 14 wherein N and M can be equal or unequal, thus it is rejected with the same rationale applied against claim 14 above.

Regarding claim 18, this claim has limitation that is similar to those of claims 14 wherein N and M can be equal or unequal, thus it is rejected with the same rationale applied against claim 14 above.

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Allowable Subject Matter

4. Claims 15, 20-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and if no art rejection can be applied.

Examiner's Statement of Reasons for Allowance

- 5. Claims 15 and 20-21 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The prior art along or in combination fails to teach or make obvious the following limitations:

"a first fibre channel device having a fibre channel input and a fibre channel output, the fibre channel output of the device connected with a first one of the N fibre channel inputs of the matrix of switches, the fibre channel input of the device connected with a first one of the M fibre channel outputs of the matrix of switches, a second fibre channel device having a fibre channel input and a fibre channel output, the fibre channel output of the device connected with a second one of the N fibre channel inputs of the matrix of switches, the fibre channel input of the device connected with a second one of the M fibre channel outputs of the matrix of switches, A fibre channel analyzer having a fibre channel input, the fibre channel input of the analyzer connected with a third one of the M fibre channel outputs of the matrix of switches, the switches of the matrix disposed such that

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the first one of the N fibre channel inputs is connected to the second one of the M fibre channel outputs and is also connected with the third one of the M fibre channel outputs." as recited in the *independent claims 15 and 20*.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chang whose telephone number is (571) 272-3129. The examiner can normally be reached on Monday - Friday from 8 AM to 5 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Richard Chang Patent Examiner Art Unit 2663

> RICKY Q. NGO SUPERVISORY PATENT EXAMINER